Douglas K Bishop

List of Publications by Year in Descending Order

37 papers	3,942 citations	25 h-index	39 g-index
39 ext. papers	4,459 ext. citations	15.6 avg, IF	5.33 L-index

#	Paper	IF	Citations
37	Meiosis in Quarantine discussions lead to an action plan to increase diversity and inclusion within the genetics community. *PLoS Genetics*, **2021**, 17, e1009648	6	
36	How strand exchange protein function benefits from ATP hydrolysis. *Current Opinion in Genetics and Development*, **2021**, 71, 120-128	4.9	1
35	Non-enzymatic roles of human RAD51 at stalled replication forks. *Nature Communications*, **2019**, 10, 4410	17.4	48
34	A mutant form of Dmc1 that bypasses the requirement for accessory protein Mei5-Sae3 reveals independent activities of Mei5-Sae3 and Rad51 in Dmc1 filament stability. *PLoS Genetics*, **2019**, 15, e1008217	6	3
33	Distinct Functions in Regulation of Meiotic Crossovers for DNA Damage Response Clamp Loader Rad24(Rad17) and Mec1(ATR) Kinase. *Genetics*, **2019**, 213, 1255-1269	4	7
32	RPA resolves conflicting activities of accessory proteins during reconstitution of Dmc1-mediated meiotic recombination. *Nucleic Acids Research*, **2019**, 47, 747-761	20.1	11
31	The ATPase activity of E. coli RecA prevents accumulation of toxic complexes formed by erroneous binding to undamaged double stranded DNA. *Nucleic Acids Research*, **2018**, 46, 9510-9523	20.1	16
30	Purification of Saccharomyces cerevisiae Homologous Recombination Proteins Dmc1 and Rdh54/Tid1 and a Fluorescent D-Loop Assay. *Methods in Enzymology*, **2018**, 600, 307-320	1.7	3
29	DNA damage response clamp 9-1-1 promotes assembly of ZMM proteins for formation of crossovers and synaptonemal complex. *Journal of Cell Science*, **2015**, 128, 1494-506	5.3	24
28	Gradual implementation of the meiotic recombination program via checkpoint pathways controlled by global DSB levels. *Molecular Cell*, **2015**, 57, 797-811	17.6	67
27	Caffeine inhibits gene conversion by displacing Rad51 from ssDNA. *Nucleic Acids Research*, **2015**, 43, 6902-18	20.1	11
26	Surface Spreading and Immunostaining of Yeast Chromosomes. *Journal of Visualized Experiments*, **2015**, e53081	1.6	10
25	RAD54 family translocases counter genotoxic effects of RAD51 in human tumor cells. *Nucleic Acids Research*, **2015**, 43, 3180-96	20.1	35
24	Caffeine impairs resection during DNA break repair by reducing the levels of nucleases Sae2 and Dna2. *Nucleic Acids Research*, **2015**, 43, 6889-901	20.1	35
23	Small Rad51 and Dmc1 Complexes Often Co-occupy Both Ends of a Meiotic DNA Double Strand Break. *PLoS Genetics*, **2015**, 11, e1005653	6	57
22	DNA strand exchange and RecA homologs in meiosis. *Cold Spring Harbor Perspectives in Biology*, **2014**, 7, a016659	10.2	132
21	The RAD51-stimulatory compound RS-1 can exploit the RAD51 overexpression that exists in cancer cells and tumors. *Cancer Research*, **2014**, 74, 3546-55	10.1	32

20	The third exon of the budding yeast meiotic recombination gene HOP2 is required for calcium-dependent and recombinase Dmc1-specific stimulation of homologous strand assimilation. *Journal of Biological Chemistry*, **2014**, 289, 18076-86	5.4	25
19	Meiotic crossover control by concerted action of Rad51-Dmc1 in homolog template bias and robust homeostatic regulation. *PLoS Genetics*, **2013**, 9, e1003978	6	98
18	Rad51 is an accessory factor for Dmc1-mediated joint molecule formation during meiosis. *Science*, **2012**, 337, 1222-5	33.3	194
17	Swi2/Snf2-related translocases prevent accumulation of toxic Rad51 complexes during mitotic growth. *Molecular Cell*, **2010**, 39, 862-72	17.6	65
16	The Mei5-Sae3 protein complex mediates Dmc1 activity in Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2009**, 284, 11766-70	5.4	38
15	A comparative analysis of Dmc1 and Rad51 nucleoprotein filaments. *Nucleic Acids Research*, **2008**, 36, 4057-66	20.1	84
14	Synthesis-dependent strand annealing in meiosis. *PLoS Biology*, **2007**, 5, e299	9.7	102
13	Tid1/Rdh54 promotes dissociation of Dmc1 from nonrecombinogenic sites on meiotic chromatin. *Genes and Development*, **2006**, 20, 2593-604	12.6	55
12	Multiple mechanisms of meiotic recombination. *Cell*, **2006**, 127, 1095-7	56.2	8
11	Early decision; meiotic crossover interference prior to stable strand exchange and synapsis. *Cell*, **2004**, 117, 9-15	56.2	288
10	Crossover interference in Saccharomyces cerevisiae requires a TID1/RDH54- and DMC1-dependent pathway. *Genetics*, **2003**, 163, 1273-86	4	59
9	Nine novel conserved motifs in BRCA1 identified by the chicken orthologue. *Oncogene*, **2001**, 20, 4433-8	9.2	36
8	Saccharomyces cerevisiae Dmc1 protein promotes renaturation of single-strand DNA (ssDNA) and assimilation of ssDNA into homologous super-coiled duplex DNA. *Journal of Biological Chemistry*, **2001**, 276, 41906-12	5.4	109
7	High copy number suppression of the meiotic arrest caused by a dmc1 mutation: REC114 imposes an early recombination block and RAD54 promotes a DMC1-independent DSB repair pathway. *Genes To Cells*, **1999**, 4, 425-44	2.3	76
6	Saccharomyces cerevisiae checkpoint genes MEC1, RAD17 and RAD24 are required for normal meiotic recombination partner choice. *Genetics*, **1999**, 153, 607-20	4	114
5	Xrcc3 is required for assembly of Rad51 complexes in vivo. *Journal of Biological Chemistry*, **1998**, 273, 21482-8	5.4	223
4	Saccharomyces cerevisiae recA homologues RAD51 and DMC1 have both distinct and overlapping roles in meiotic recombination. *Genes To Cells*, **1997**, 2, 615-29	2.3	154
3	A meiotic recombination checkpoint controlled by mitotic checkpoint genes. *Nature*, **1996**, 383, 840-3	50.4	284

2	RecA homologs Dmc1 and Rad51 interact to form multiple nuclear complexes prior to meiotic chromosome synapsis. *Cell*, **1994**, 79, 1081-92	56.2	405
1	DMC1: a meiosis-specific yeast homolog of E. coli recA required for recombination, synaptonemal complex formation, and cell cycle progression. *Cell*, **1992**, 69, 439-56	56.2	1018